



2007-02-28 1254-0328PUS1.ST25  
SEQUENCE LISTING

<110> Kasuwa Namao et al.

<120> THEURAPEUTIC OR PROPHYLACTIC AGENT FOR ARTHRITIS

<130> 1254-0328PUS1

<140> US 10/594,920

<141> 2006-09-29

<150> JP 2004-107924

<151> 2004-03-31

<160> 10

<170> PatentIn Ver. 2.1

<210> 1

<211> 22

<212> PRT

<213> Homo sapiens

<220>

<221> DISULFID

<222> (6)..(22)

<223> A disulfide bond is formed

<400> 1

Gly	Leu	Ser	Lys	Gly	Cys	Phe	Gly	Leu	Lys	Leu	Asp	Arg	Ile	Gly	Ser
1				5					10					15	

Met	Ser	Gly	Leu	Gly	Cys
				20	

<210> 2

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> DISULFID

<222> (37)..(53)

<223> A disulfide bond is formed

<400> 2

Asp Leu Arg Val Asp Thr Lys Ser Arg Ala Ala Trp Ala Arg Leu Leu  
1 5 10 15

Gln Glu His Pro Asn Ala Arg Lys Tyr Lys Gly Ala Asn Lys Lys Gly  
20 25 30

Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met  
35 40 45

Ser Gly Leu Gly Cys  
50

<210> 3

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative  
derived from mammals

<220>

<221> DISULFID

<222> (6)..(22)

<223> A disulfide bond is formed

<400> 3

Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ala  
1 5 10 15

Met Ser Gly Leu Gly Cys  
20

<210> 4

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative  
derived from mammals

<220>

<221> DISULFID

<222> (6)..(22)

<223> A disulfide bond is formed

<400> 4

Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser  
1 5 10 15

Gln Ser Gly Leu Gly Cys  
20

<210> 5

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative

derived from mammals

<220>

<221> DISULFID

<222> (6)..(22)

<223> A disulfide bond is formed

<400> 5

Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser  
1 5 10 15

Ala Ser Gly Leu Gly Cys  
20

<210> 6

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative

derived from mammals

<220>

<221> DISULFID

<222> (1)..(17)

<223> A disulfide bond is formed

<400> 6

Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met Ser Gly Leu Gly  
 1 5 10 15

Cys

<210> 7

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
 derivative

derived from mammals

<220>

<221> DISULFID

<222> (7)..(23)

<223> A disulfide bond is formed

<400> 7

Ser Leu Arg Arg Ser Ser Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly  
 1 5 10 15

Ser Met Ser Gly Leu Gly Cys  
 20

<210> 8

<211> 27

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic CNP-22  
 derivative

derived from mammals

<220>

<221> DISULFID

<222> (6)..(22)

<223> A disulfide bond is formed

2007-02-28 1254-0328PUS1.ST25

<400> 8

Gly Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser  
1 5 10 15

Met Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
20 25

<210> 9

<211> 22

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative  
derived from mammals

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<221> DISULFID

<222> (1)..(17)

<223> A disulfide bond is formed

<400> 9

Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Gln Ser Gly Leu Gly  
1 5 10 15

Cys Asn Ser Phe Arg Tyr  
20

<210> 10

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic CNP-22  
derivative  
derived from mammals

<220>

<221> MUTAGEN

<222> (4)..(4)

<223> Xaa is Leu, Ile, or Val

<220>

<221> MUTAGEN  
 <222> (5)..(5)  
 <223> Xaa is Lys, Leu, or Met

<220>  
 <221> MUTAGEN  
 <222> (6)..(6)  
 <223> Xaa is Leu, Ile, Ala, or Val

<220>  
 <221> MUTAGEN  
 <222> (11)..(11)  
 <223> Xaa is Ser, Ala, Gly, Thr, or Asn

<220>  
 <221> MUTAGEN  
 <222> (12)..(12)  
 <223> Xaa is Met, Ala, Trp, His, Lys, Ser, or Gly

<220>  
 <221> MUTAGEN  
 <222> (12)..(12)  
 <223> Xaa is Met, Ala, Trp, His, Lys, Ser, or Gly

<220>  
 <221> MUTAGEN  
 <222> (14)..(14)  
 <223> Xaa is Gly, Lys, Ala, or Leu

<220>  
 <221> MUTAGEN  
 <222> (15)..(15)  
 <223> Xaa is Leu or Met

<220>  
 <221> DISULFID  
 <222> (1)..(17)  
 <223> A disulfide bond is formed

<400> 10  
 Cys Phe Gly Xaa Xaa Xaa Asp Arg Ile Gly Xaa Xaa Ser Xaa Xaa Gly  
 1 5 10 15

Cys